## **PATENT COOPERATION TREATY**

# PCT

## **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
51687/382205	ACTION	as well	as, where applicable, item 5 below.
International application No.	International filing date (day/mont	th/year)	(Earliest) Priority Date (day/month/year)
PCT/US2009/058497	25/09/2009	)	25/09/2008
Applicant			
TRANSGENRX, INC.			
This international search report has been according to Article 18. A copy is being tra			rity and is transmitted to the applicant
This international search report consists o	f a total of she	ets.	·
X It is also accompanied by	a copy of each prior art document of	cited in this i	report.
a translation of the of a translation full b.  This international search authorized by or notified to c.  With regard to any nucleon.  Certain claims were found as a continuous	application in the language in which a international application into rnished for the purposes of international seport has been established taking to this Authority under Rule 91 (Rule obtide and/or amino acid sequence and unsearchable (See Box No. II) king (see Box No III)	it was filed ional search into account 43.6 <i>bis</i> (a))	, which is the language (Rules 12.3(a) and 23.1(b)) the rectification of an obvious mistake
	hed, according to Rule 38.2(b), by		y as it appears in Box No. IV. The applicant th report, submit comments to this Authority
6. With regard to the drawings,			
a. the figure of the <b>drawings</b> to be p	•	No	
as suggested by t	• •	والمالمالما	
<u></u>	s Authority, because the applicant f	-	· · ·
	s Authority, because this figure bett e published with the abstract	ei charactei	nzes the invention
The second are rigated to be	position was all about		

International application No.

# **INTERNATIONAL SEARCH REPORT**

		PCT/US2009/058497
Box No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1	.b of the first sheet)
1. With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international ntion, the international search was carried out on the basis of:	application and necessary to the claimed
a.	(means)  X on paper X in electronic form	
b.	(time)  X in the international application as filed together with the international application in electronic form subsequently to this Authority for the purpose of search	
2. X	In addition, in the case that more than one version or copy of a sequence listing a or furnished, the required statements that the information in the subsequent or ac application as filed or does not go beyond the application as filed, as appropriate	dditional copies is identical to that in the
3. Addi	tional comments:	

#### INTERNATIONAL SEARCH REPORT

International application No PCT/US2009/058497

a. classification of subject matter INV. C12N15/85

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

 $\begin{tabular}{ll} \begin{tabular}{ll} Minimum documentation searched (classification system followed by classification symbols) \\ \begin{tabular}{ll} C12N \end{tabular}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, COMPENDEX, Sequence Search, EMBASE, FSTA, WPI Data

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	WO 2004/003157 A2 (TRANSGENRES LLC [US]; UNIV LOUISIANA STATE [US]; COOPER RICHARD K [US]) 8 January 2004 (2004-01-08) the whole document, in particular p.4, 2nd paragr.; p.6, 2nd paragr.; p.12, last paragr.; p.23, 2nd paragr.; p.32, l.18; Example 20 (pTnMCS (CMV-prepro-ent-hGH-CPA), pTnMCS (CHOVep-prepro-ent-hGH-CPA), pTnMOD (CHOVep-prepro-ent-hGH-CPA), and claims	1,11,13		

X Further documents are listed in the continuation of Box C.	X See patent family annex.				
* Special categories of cited documents:  'A' document defining the general state of the art which is not considered to be of particular relevance  'E' earlier document but published on or after the international filing date  'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  'O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>				
Date of the actual completion of the international search  19 March 2010	Date of mailing of the international search report $14/04/2010$				
Name and mailing address of the ISA/  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040,  Fax: (+31–70) 340–3016	Authorized officer  Bassias, Ioannis				

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# **INTERNATIONAL SEARCH REPORT**

International application No
PCT/US2009/058497

		PC1/US2009/05849/		
C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	· · · · · · · · · · · · · · · · · · ·		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	WO 2004/067707 A2 (TRANSGENRES LLC [US]; UNIV LOUISIANA STATE [US]; COOPER RICHARD K [US]) 12 August 2004 (2004-08-12) the whole document, in particular p.4, 2nd paragr.; p.6, 2nd paragr.; p.12, 4th paragr.; p.24, 1st paragr.; p.28, 1.26; p.33, 1.4; Example 13 (pTnMCS (CHOVep-prepro-ent-hGH-CPA), pTnMOD (CHOVep-prepro-ent-hGH-CPA)) and claims	1,11,13		
A	GEYER P K ET AL: "Protecting against promiscuity: The regulatory role of insulators."  CMLS CELLULAR AND MOLECULAR LIFE SCIENCES, vol. 59, no. 12, December 2002 (2002-12), pages 2112-2127, XP002573586  ISSN: 1420-682X the whole document, in particular Table 1	1-14		
A	MAKSIMENKO O G ET AL: "[Insulators of higher eukaryotes: properties, mechanisms of action, and role in transcriptional regulation]" GENETIKA AUG 2006, vol. 42, no. 8, August 2006 (2006-08), pages 1029-1044, XP002573587 ISSN: 0016-6758	1-14		
Α	WO 2004/065581 A2 (DISCOVERY GENOMICS INC [US]) 5 August 2004 (2004-08-05)	1-14		
A	LARGAESPADA DAVID A: "Generating and manipulating transgenic animals using transposable elements" REPRODUCTIVE BIOLOGY AND ENDOCRINOLOGY, XX, XX, vol. 1, no. 1, 7 November 2003 (2003–11–07), page 80, XP021009352 ISSN: 1477–7827	1-14		
A	KOZAK ET AL: "At least six nucleotides preceding the AUG initiator codon enhance translation in mammalian cells" JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 196, no. 4, 20 August 1987 (1987-08-20), pages 947-950, XP024010432 ISSN: 0022-2836 [retrieved on 1987-08-20]	1-14		

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2009/058497

	atent document d in search report		Publication date		Patent family member(s)	Publication date
WO	2004003157	A2	08-01-2004	AT AU BR CA EP JP	430756 T 2003261096 A1 0305217 A 2490693 A1 1539785 A2 2005530516 T	15-05-2009 19-01-2004 28-06-2005 08-01-2004 15-06-2005 13-10-2005
WO	2004067707	A2	12-08-2004	AT AU AU EP EP JP JP WO WO	431849 T 2003299959 A1 2003303830 A1 2003303831 A1 1592789 A2 1597378 A2 2006512921 T 2006512922 T 2004067706 A2 2004067743 A1	15-06-2009 23-08-2004 23-08-2004 23-08-2004 09-11-2005 23-11-2005 20-04-2006 20-04-2006 12-08-2004
WO	2004065581	A2	05-08-2004	NONE		